



Dr. Terry Allard, SES ONR34 Department Head 23 October 2012

# office of Naval Research

## Agenda

- Warfighter Performance Focus Area
  - √ Manpower, Personnel, Training & Education
  - √ Human System Design and Decision Support
  - ✓ Bio-Engineered Systems
  - √ Warfighter Health and Survivability
- Training and Medical Research Leadership Panel
  - ✓ RADM Don "DQ" Quinn, Commander Naval Education and Training Command
  - ✓ RADM Bruce Doll, Director of Research
    Office of the Navy Surgeon General
- Discussion / Question and Answer Session







Manpower, Personnel, Training & Education

✓ Human-System Engineering Trades in Platform Design Dr. William "Kip" Krebs

- ✓ Adaptive Scenario-based Warfighter Training Dr. Ami Bolton, Dr. Ray Perez
- ✓ Fleet Synthetic TrainingDr. Harold Hawkins
- ✓ Small Unit Team Training, ResilienceDr. Ami Bolton, Dr. Peter Squire
- ✓ Recruit Training, STEM EducationCDR Joseph Cohn, Dr. Harold Hawkins, Dr. Ray Perez





HUMAN-SYSTEM DESIGN AND DECISION SUPPORT

- ✓ Command Decision-MakingDr. Julie Marble, Dr. Jeff Morrison
- ✓ Mission Planning Decision SupportDr. William "Kip" Krebs
- ✓ Human-Robot Interaction / Intelligent AutonomyDr. Paul Bello, Dr. Tom McKenna
- ✓ Human Social, Cultural, Behavioral Sciences Dr. Rebecca Goolsby, Dr. Harold Hawkins
- ✓ Noise-Induced Hearing Loss Prevention & Mitigation Mr. Kurt Yankaskas





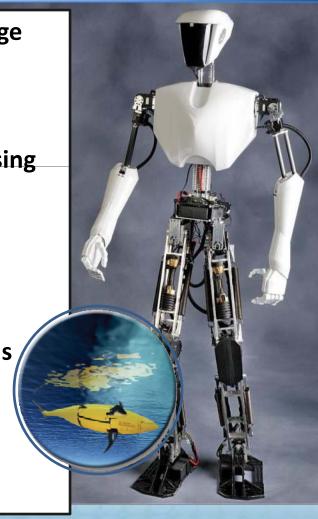
### BIOENGINEERED SYSTEMS

✓ Human and Machine Intelligence, Natural Language
 Human-Machine Collaboration
 Dr. Paul Bello, Dr. Tom McKenna

 ✓ Brain-based Intelligent Sensors and Signal Processing Dr. Tom McKenna

✓ Autonomous VehiclesDr. Tom McKenna

✓ Synthetic and Systems Biology, Microbial Fuel Cells Sentinel Cells, Biomaterials Dr. Linda Chrisey, Dr. Laura Kienker





### Warfighter Health & Survivability

✓ CASEVAC Medical Devices, Hemorrhage Control, Blast Dr. Tim Bentley, Dr. Mike Given

✓ Hyberbaric Oxygen Toxicity, Decompression Sickness
 CDR Matt Swiergosz, LCDR Chris Steele

✓ Physiological Stress, Fatigue, Resilience
 CDR Sheri Parker, Dr. Laura Kienker, Dr. Peter Squire

✓ Marine Mammal Health Dr. Laura Kienker

✓ Synthetic Biology / Battlefield Medical Analysis Dr. Linda Chrisey



# Warfighter Performance Focus Area Vision

Safe, Effective, Efficient, Affordable System Performance:

Manpower, Personnel, Training, Design, Decision Support

Medical Technologies

Bio-Engineered Systems



Improved Point of Injury Care / CASEVAC Resilience in Extreme Environments

**Biologically-Inspired Technologies** 



## **RADM Bruce Doll, Director of Research**Office of the Navy Surgeon General

### **Previous Postings**

- NATO Senior Health Care Executive
- Deputy Commander, Navy Medicine East
- Deputy Chief, Navy Dental Corps
- CO, Navy Expeditionary Medical Unit
- COO, Rutgers / Cleveland Clinic Regen Med research consortium

### **Education**

- DDS, Doctor of Dental Surgery
- PhD, Cell & Molecular Biology

## **RADM Don Quinn, Commander Naval Education & Training Command**

#### **Previous Postings**

- Commander, Naval Air Training Command
- Commander, Navy Personnel Command
- Commander, Carrier Air Wing 9
- CO, Electronic Attack Squadrons VAQ-139, VAQ-129

### **Operational Assignments**

- Attack Squadron VA-52, VA-185, VA-65
- Deputy Chief of Operations for Commander, Joint Task Force SW Asia

#### **Education**

- US Naval Academy
- MA, Nat'l Security & Strategic Studies
- MS, General Management